

CLAIM AMENDMENTS

Please cancel claims 382 - 402.

Please cancel claim 406.

Please add the following new claims:

407. The method of claim 403, wherein said stem cell comprises a living stem cell harvested from bone marrow.

408. The method of claim 407, wherein said bone marrow is from said patient.

409. The method of claim 403, wherein said stem cell comprises a living stem cell harvested from blood.

410. The method of claim 409, wherein said blood is from said patient.

411. The method of claim 403 further comprising determining blood flow through said desired artery.

412. The method of claim 403 further comprising observing said desired artery.

LISTING OF CLAIMS

Claims 1-402
(canceled)

Claim 403
(previously presented)

A method for growing and integrating tissue consisting of desired soft tissue at a selected site in a body of a human patient wherein said desired soft tissue comprises a desired artery comprising the steps of:

- (a) locally injecting stem cells into said body at said selected site;
- (b) forming a bud at said selected site; and
- (c) growing said desired artery from said bud wherein said artery integrates itself into said body of said human patient at said selected site.

Claim 404
(previously presented)

The method of claim 403, wherein said selected site comprises a damaged site in a leg of said patient and said stem cells are injected intramuscularly.

Claim 405
(previously presented)

The method of claim 403, wherein said selected site comprises a damaged site in a heart of said patient and said stem cells are injected intramuscularly.

Claim 406 (cancelled)

- Claim 407 (new) The method of claim 403, wherein said stem cell comprises a living stem cell harvested from bone marrow.
- Claim 408 (new) The method of claim 407, wherein said bone marrow is from said patient.
- Claim 409 (new) The method of claim 403, wherein said stem cell comprises a living stem cell harvested from blood.
- Claim 410 (new) The method of claim 409, wherein said blood is from said patient.
- Claim 411 (new) The method of claim 403 further comprising determining blood flow through said desired artery.
- Claim 412 (new) The method of claim 403 further comprising observing said desired artery.